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IN THE CLAIMS

- 1-22. (Cancelled)
- 23. (New) A vacuum cleaning chamber comprising a plasma discharge section, a gas supply operatively connected with a gas tank arrangement and with a workpiece holding arrangement, wherein said gas tank arrangement feeds to said gas supply a gas predominantly comprising nitrogen.
- 24. (New) A vacuum cleaning chamber of Claim 23, wherein said workpiece holding arrangement is constructed to hold at least one disk-shaped or plate-shaped workpiece, resides within said vacuum cleaning chamber and comprises at least one access slit open to the interior of said vacuum cleaning chamber.
- 25. (New) The chamber of Claim 24, wherein said holding arrangement defines for a holding plane for said disk-shaped or plate-shaped workpiece and said slit extends substantially parallel to said plane.
- 26. (New) The chamber of Claim 25, wherein said slit extends laterally with respect to said holding plane.
- 27. (New) The chamber of Claim 24 comprising more than one of said access slits.

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28. (New) The chamber of claim 23, wherein said holding arrangement is constructed to hold more than one disk- or plate-shaped workpiece, one upon the other and distant from each other.

- 29. (New) The chamber of Claim 23, wherein said plasma discharge section is a low-voltage discharge section.
- 30. (New) The chamber of Claim 29, wherein said low-voltage discharge section comprises an electron-emitting hot cathode.
- 31. (New) The chamber of Claim 23, wherein said gas tank arrangement feeds to said gas supply said gas containing hydrogen.
- 32. (New) The chamber of Claim 23, wherein said tank arrangement feeds to said gas supply said gas comprising a working gas.
- 33. (New) The chamber of Claim 10, wherein said working gas is at least one noble gas.
- 34. (New) The chamber of Claim 23, wherein said holding arrangement comprises a magazine with more than one of said slits stacked one upon the other.